

O. P. JINDAL SCHOOL, SAVITRI NAGAR

ANNUAL EXAMINATION-(2025-2026)

Class/ Sec – VIII/

MM – 80

Subject – Science

Time – 3 hours

Name - _____

Roll No. _____

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General Instructions – Fifteen minutes extra will be given for reading the Question Paper.

1. This Question paper comprises of 5 sections A, B, C, D, E.
 2. There are 24 questions in the Question Paper.
 3. Section A, Q1 comprises of 12 MCQ type questions and each carries 1 mark.
 4. Section B, Q2 & Q3 are of case-based type question, each carries 4 marks.
 5. Q4 is Assertion/Reason type question, carries 2 marks.
 6. Section C, Q5 to Q12 are very short-answer type questions and each carries 2 marks.
 7. Section D, Q13 to Q21 are short-answer type questions and each carries 3 marks.
 8. Section E, Q22 to Q24 are long-answer type questions and each carries 5 marks.
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(SECTION – A)

Q1. Choose the correct answer

- i. 1 hertz is equal to-
 - (a) 1 vibration per minute
 - (b) 10 vibrations per minute
 - (c) 60 vibrations per minute
 - (d) 600 vibrations per minute
- ii. In dholak, sound is produced due to vibration in-
 - (a) stretched membrane
 - (b) stretched strings
 - (c) air column
 - (d) none of these
- iii. In human beings, the correct sequence of events during reproduction is-
 - (a) gamete formation, fertilization, zygote, embryo
 - (b) embryo, zygote, fertilization, gamete formation
 - (c) fertilization, gamete formation, embryo, zygote
 - (d) gamete formation, fertilization, embryo, zygote
- iv. Which of the following is an advantage of asexual reproduction-
 - (a) Produce genetically different offspring
 - (b) Helps in rapid multiplication of species
 - (c) Requires only two parents
 - (d) Depends on external fertilization

- v. Adolescents should be careful about what they eat, because-
 - (a) Proper diet develops their brains.
 - (b) Proper diet is needed for the rapid growth taking place in their body
 - (c) Adolescents feel hungry all the time.
 - (d) Taste buds are well-developed in teenagers.
- vi. Which of the following is a secondary sexual characteristic in boys?
 - (a) Development of ovaries (b) Development of the uterus
 - (c) Broadening of shoulders (d) Development of breasts
- vii. Which one of the following has the highest calorific value?
 - (a) Kerosene (b) Biogas (c) LPG (d) charcoal
- viii. The substance that does not burn with flame is
 - (a) LPG (b) camphor (c) dry grass (d) charcoal
- ix. Which of the following is not likely to cause Tsunami?
 - (a) A major nuclear explosion under sea (b) Earthquake
 - (c) Volcanic eruption (d) Lightning
- x. When two charged objects are brought close to each other-
 - (a) They may attract (b) They may repel
 - (c) They may attract or repel depending on the type of charges they carry
 - (d) There will be no effect
- xi. Which of the following is a bad conductor of electricity?
 - (a) Distilled water (b) Silver nitrate (c) Sulphuric acid (d) Copper sulphate
- xii. What is the bending of light called when it passes from one medium to another?
 - (a) Reflection (b) Refraction (c) Dispersion (d) Absorption

(SECTION – B)

Q2. Read the given passage and answer the questions:

Roy and his friends were swimming in a pool. Suddenly he saw a huge flash of light in the sky and heard a loud sound of thunder. His friends continued swimming but Roy explained everyone lightning is preceded by thunder which serves as an alert to hide in closed buildings. Therefore when the sound of thunder is heard, rush to a safe place. If you are travelling by vehicle, you should stay inside and keep all the doors and windows closed. Few of his friends immediately got into the car. Roy and a few of them went inside the nearby building.

(i) What should Roy and his friends do to save themselves from a thunderstorm?

- (a) They should stop swimming and stand in the pool.
- (b) They should stop swimming and go inside a building.

- (c) They should continue swimming.
- (d) They should run immediately and take shelter under a tall tree.
- (ii) What should be done by Roy's friends who got into the car?
 - (a) They should stay inside the car with doors and windows closed.
 - (b) They should stay inside the car with doors and windows open.
 - (c) They should stay inside the car with doors closed but windows opened.
 - (d) They should stay inside the car with doors opened but windows closed.
- (iii) Which of these conditions results in lightning?
 - (a) Negative and positive charges meeting.
 - (b) The number of negative charges increasing.
 - (c) The number of positive charges increasing.
 - (d) Negative and positive charges moving away from each other.
- (iv) What is a lightning conductor made of?
 - (a) Glass
 - (b) Metal
 - (c) Wood
 - (d) Plastic

Q3. Read the passage and answer the given question:

A chemical process in which a substance reacts with oxygen to give off heat is called combustion. The substance that undergoes combustion is said to be combustible. It is also called a fuel. The fuel may be solid, liquid or gas. Sometimes, light is also given off during combustion, either as a flame or as a glow. The lowest temperature at which a substance catches fire is called its ignition temperature. The substances which have very low ignition temperature and can easily catch fire with a flame are called inflammable substances. Examples of inflammable substances are petrol, alcohol, Liquefied Petroleum Gas (LPG)

- (i) What are combustible substance?
 - (a) Substance that undergoes combustion
 - (b) Substance reacts with ozone
 - (c) Substance that glows
 - (d) All of these
- (ii) Fuels can be -
 - (a) Solids only
 - (b) Liquids only
 - (c) Gases only
 - (d) All of these
- (iii) What is ignition temperature?
 - (a) Lowest temperature at which a substance catches fire.
 - (b) Temperature when water boils.
 - (c) Temperature at which ice is formed.
 - (d) Temperature of LPG.

(iv) Identify the inflammable substance from the following.

- (a) Soil (b) Water (c) Alcohol (d) Vinegar

Q4. In the question given below are two statements labelled as Assertion (A) and Reason (R).

In the context of the question which of the following is correct?

(i) Assertion: (A) The pitch of a sound depends on its frequency.

Reason(R): Higher frequency sounds have a higher pitch.

- (a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true and R is not the correct explanation of A.
(c) A is True but R is False.
(d) A is False but R is true

(ii) Assertion (A): Distilled water is good conductor of electricity.

Reason(R): Glowing of a bulb is due to heating effect of electric current.

- (a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true and R is not the correct explanation of A.
(c) A is True but R is False.
(d) A is False but R is true

(SECTION – C)

Q5. A string musical instrument was first plucked with a force of smaller magnitude and then with a force of greater magnitude. In which case would the instrument produce a louder sound? Why?

OR

What differences will you hear in a sound if there is an increase in?

- (i) Amplitude (ii) frequency

Q6. What is metamorphosis? Give examples.

OR

Name the hormone released by master gland? What is its function?

Q7. (i) Why should you not touch electrical appliances with wet hands?

(ii) Why are LEDs more useful for testing the flow of electric current?

Q8. What are the advantages of using CNG and LPG as fuels? (Any two)

Q9. The sound from a mosquito is produced when it vibrates its wings at an average rate of 500 vibrations per second. What is the time period of the vibration?

Q10. Mother gives birth to a baby but the baby has characters of both parents. How?

OR

Give two differences between a zygote and a foetus.

Q11. (i) Name the scale on which the destructive energy of an earthquake is measured.

(ii) An earthquake measures 3 on this scale. Would it be recorded by seismograph?

(iii) Is it likely to cause much damage?

Q12. What is cataract? How can the vision of a person having cataract be restored?

(SECTION – D)

Q13 Name the hormone which would be released in the following situations:

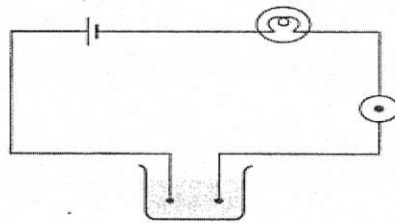
(i) A frightened person.

(ii) Growth of a child into an adult.

(iii) Development of tadpole to frog.

Q14. What are sex hormones? Why are they named so? State their functions

Q15. Ishaan made a circuit as shown in the figure. He observed that the bulb did not glow but on bringing a compass needle near it shows deflection. He was quite confused, why the bulb is not glowing. Meanwhile his friend Sourav arrived and suggested him to add one more cell in the circuit. The bulb, then started glowing.



(i) What is the magnetic effect of electric current?

(ii) What does the deflection of a compass needle shows?

(iii) Why the bulb did not glow in the first case but glow in the second case?

Q16 Though hen and frog both are oviparous but they have different types of fertilization. Explain

OR

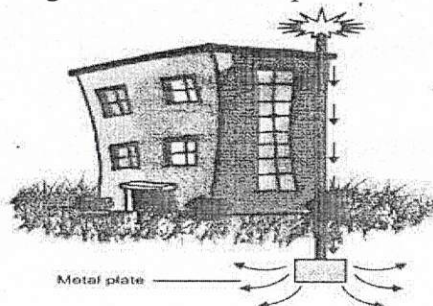
Differentiate between viviparous and oviparous animals.

Q17 State the various measures which can be taken to control noise pollution in our surroundings.

Q18 Lightning and thunder take place in the sky at the same time and at the same distance from us. Lightning is seen earlier and thunder is heard later. Explain?

Q19 (i) Explain why a wireless telephone is safer than a landline telephone during lightning.

(ii) Name the device given below in the picture and write its function.



OR

- (i) Sometime, a crackling sound is heard while taking off sweater during winters. Explain.
- (ii) Why does a charged body lose its charge when we touch it with our hand?

Q20. Differentiate between regular and diffused reflection. Does diffused reflection mean the failure of the laws of reflection?

Q21. Why does a matchstick not catch fire on its own at room temperature?

OR

Why water is not a good fire extinguisher in case of electrical equipment and inflammable materials?

(SECTION – E)

Q22 (i) Rohan wants to deposit Copper on an iron spoon using Copper sulphate solution as an electrolyte. Explain procedure with the help of diagram.

(ii) Why is chromium used for electroplating? Why the objects have chromium plating are not made of chromium itself?

OR

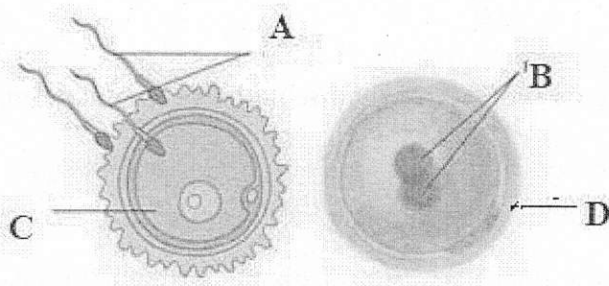
(i) What happens when electric current is passed through the copper sulphate solution?
Explain with the help of diagram.

(ii) An electric current is passed into a conducting solution. What can be the three possible observations?

Q23. Describe female reproductive organ with the help of a labelled diagram.

OR

- (i) How is reproduction in hydra different from that in Amoeba?
- (ii) Identify A, B, C and D in the given diagram.



Q24 Explain the structure of the human eye with a neat labeled diagram.

OR

- (i) Write any three ways to take care of your eyes.
- (ii) What is Braille? How does the braille system work?
